SPRINT 3

PYTHON CODE

TEAM ID	PNT2022TMID14587
PROJECT TITLE	Real-Time River Water Quality Monitoring and Controlling System
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PYTHON CODE

```
#importing Random function to generate the value import random as
rand  for i in range(5):

    print("Test case:",i+1)

    print("Welcome to Real-Time River Water Quality Monitoring and
Control System")    temperature = int(rand.randint(-40,125))    pH =
int(rand.randint(0,14))    DO = int(rand.randint(0,100))

    TSS = int(rand.randint(0,3700))

    Manganese = int(rand.randint(0,1000))    Copper =
int(rand.randint(0,2000))

    ammonia_Nitrate = int(rand.randint(0,100))
```

```python
Hardness = int(rand.randint(0,1000))

Zinc =  int(rand.randint(0,100))

Conductivity =  f"{float(rand.uniform(0.001,2000)):.2f}"

Chloride = int(rand.randint(0,200))
Sulphate = int(rand.randint(0,1000))

#These variables store value of ramdom data to be shared to the cloud

#printing the values     print(

    "Temperature:", temperature,

    "\npH:", pH,

    "\nDO:", DO,

    "\nTSS:", TSS,

    "\nManganese:", Manganese,

    "\nCopper:", Copper,

    "\nAmmonia & Nitrate:",ammonia_Nitrate,

    "\nHardness:",Hardness,

    "\nZinc:", Zinc,

    "\nConductivity:", Conductivity,

    "\nChloride:", Chloride,

    "\nSulphate:", Sulphate, "\n"

)
```